

Attachment 4

Equipment Specifications

SPECIFICATIONS FOR MODEL 14-23 CEMENT BATCHER VENT

MODEL 14-23 SPECIFICATIONS

TOTAL CLOTH AREA	23 SQ. FT.
NUMBER OF BAGS	14
HOUSING HEIGHT	1'-10"
HOUSING WIDTH & LENGTH	0'-10" X 2'-11"
BAG CLEANING METHOD	REVERSE AIR FLOW (From batcher filling and emptying)
MAXIMUM OPERATING TEMPERATURE	170 DEGREES F
CAPACITY	180 CFM MAXIMUM
DISCHARGE SHAPE	(2) 2" X 12" SLOTS
CFM/FT ² THROUGH BAGS	7.83 MAXIMUM
AIRSPED OUT OF DEVICE	545 FT / MIN
DIRECTION OF AIR DISCHARGE	DOWN
DISCHARGE AREA	.33 FT ² (48 IN ²)
NORMAL OPERATING TEMP & PRESSURE	AMBIENT

BAG SPECIFICATIONS

BAG DIAMETER	4-1/2" DIA.
BAG LENGTH	16"
CONSTRUCTION	3 X 1 TWILL
FIBER	POLYESTER
FINISH	GREIGE
WEIGHT	7.1 OZ./SQ. YD.
THICKNESS	0.019"
MULLEN BURST	275 PSI (Min)
PERMEABILITY RANGE (0.5" WATER)	30-55 CFM/SQ. FT.
BAG EFFICIENCY	99.9% (*)

BATCHER VENT

LB / HR
GR / FT³

INTO BAGS

(.04 LB / YD³) * (___ YD³ HR)
(.648 GR HR / LB FT³) * (___ LB / HR)

OUT OF BAGS

FOR ALL OUT OF BAGS VALUES, MULTIPLY THE INTO BAGS VALUES BY 0.001.

* BASED ON TESTS BY THE UNIVERSITY OF TENNESSEE.

SPECIFICATIONS FOR MODEL PJC-300S CARTRIDGE DUST CONTROL

MODEL CON-E-CO-PJC-300S

NUMBER OF CARTRIDGES	8
NOMINAL CARTRIDGE DIAMETER	8"
NOMINAL CARTRIDGE LENGTH	40"
TOTAL FILTRATION AREA	304 SQ. FT.
MIN. DESIGN EFFICIENCY OF DUST COLLECTOR	99.9%
AIR TO CLOTH RATIO	5.0 TO 1.0 (CEMENT)
CAPACITY FOR CEMENT	1,500 C.F.M.(RECOMMENDED MAXIMUM)
CAPACITY FOR FLYASH	1000 C.F.M. (RECOMMENDED MAXIMUM)
DISCHARGE AREA	.67 SQ. FT.
DISCHARGE VELOCITY @1500 C.F.M.	38 FT. / SEC.
DIRECTION OF AIR DISCHARGE	DOWN WARD
DISCHARGE SHAPE	(2) 11/16 X 48" SLOTS (2) 5/8 x 30" SLOTS
OUTLET MOISTURE CONTENT	IDEALLY ZERO
CLEANING MECHANISM	PULSE JET
FREQUENCY OF CLEANING	VARIABLE

CARTRIDGE SPECIFICATIONS

CARTRIDGE DIAMETER	7 7/8" O.D.
CARTRIDGE LENGTH	39 1/4"
CONSTRUCTION	PLEATED
FIBER	SPUN BONDED POLYESTER
WEIGHT	8 OZ / SQ. YD.
PERMEABILITY (.5" WATER)	24 CFM/SQ FT

CEMENT AND FLYASH INTO DUST COLLECTOR

CEMENT & FLYASH SILOS

WEIGHT OF DUST TO BE COLLECTED

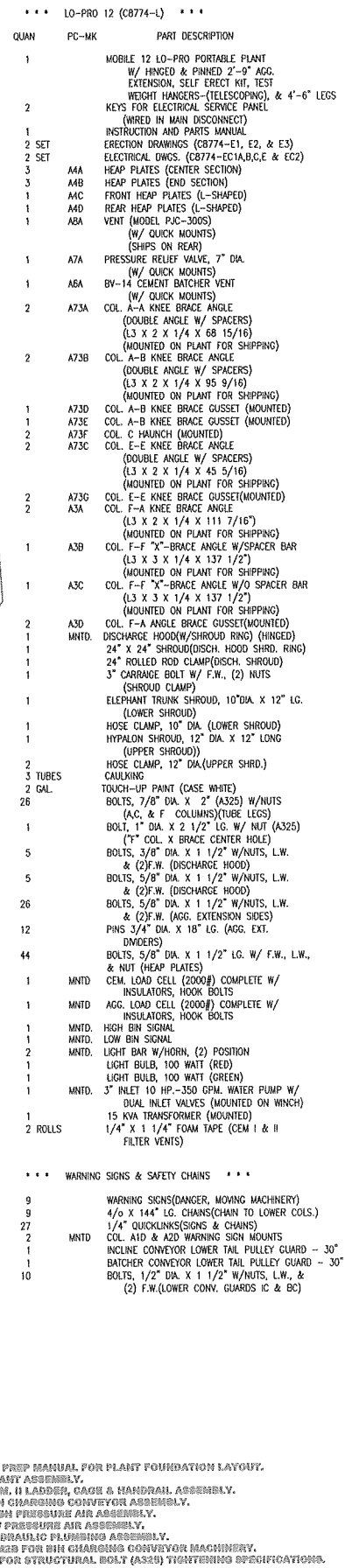
$$.07 \text{ LB/YD}^3 \text{ } \underline{\hspace{1cm}} \text{ YD}^3 \text{ CONCRETE/HR} = \text{ } \underline{\hspace{1cm}} \text{ LB/HR}$$

WEIGHT OF DUST PER CUBIC FT. OF AIR

$$.0185 \times 10^{-2} \text{ GR HR/LB FT}^3 \times (\text{ } \underline{\hspace{1cm}} \text{ LB/HR}) = \text{ } \underline{\hspace{1cm}} \text{ GR DUST/ FT}^3 \text{ AIR}$$

DUST OUT OF THE DUST COLLECTOR

MULTIPLY THE ABOVE VALUES FOR DUST INTO DUST COLLECTOR BY .001



NOTES: 1.) ALL LEGS SHOULD BE BOLTED TO MAINFRAME OF PLANT AFTER HINGED DOWN INTO POSITION.
2.) ALL ANGLE BRACES ARE PINNED CONNECTIONS TO PLANT AND LEGS USING 1" X 2 3/4" PINS.
3.) SEE OPERATOR'S MANUAL FOR STRUCTURAL BOLT (A325) TIGHTENING SPECIFICATIONS.

<div>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100</div>										<div>SCALE 1/4" = 1' - 0" DATE 4/5/06 DRAWN CMN CHECKED</div>										<div>THIS DOCUMENT CONTAINS INFORMATION PROPRIETARY TO CON-E-CO. IT SHALL NOT BE REPRODUCED, USED OR DISCLOSED WITHOUT PRIOR WRITTEN PERMISSION OF CONCRETE EQUIPMENT CO.</div>										<div>TITLE MOBILE LP-12 PLANT ASSY. CUSTOMER KONCRETE INDUSTRIES LOCATION WALLA WALLA, WA</div>										<div>PART NO. *C8774--L JOB NO. C8774--L DWG. NO. C8774--E1</div>										<div>CON-E-CO. An Oakbrook Truck Corporation Company concrete equipment company 237 N. 13th St. Blair, NE 68008 phone 402-426-4181</div>									
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Romero General Construction Corp.

2150 NORTH CENTRE CITY PARKWAY, SUITE 1

ESCONDIDO, CA 92026

PHONE (760) 489-8412 FAX (760) 489-1460

FACSIMILE TRANSMITTAL SHEET

DATE: 7-27-07

CO.: _____

FROM: MARC NelsonATTEN: Dale Pett. BoneRE: Air Quality

FAX NO.: () _____

NUMBER OF PAGES INCLUDING COVER:

☐ URGENT☐ FOR REVIEW☐ PLEASE COMMENT☐ PLEASE REPLY☐ PLEASE RECYCLE

NOTES/COMMENTS:

WISPER
WATT
80

50 gal
glub

50
10
12
15

14

8

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THANK YOU.

CON-E-CO

An Chisholm Truck Corporation Company

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CONCRETE EQUIPMENT COMPANY
237 NORTH 13TH STREET
P.O. BOX 430
BLAIR, NEBRASKA 68008

(402) 426-4181 FAX: (402) 426.4180

Sales Order

SALES ORDER # 55263 GT/DS		DATE ORDER RECEIVED: 06/20/2005	
Sold To: Mr. David Konen <u>KONCRETE INDUSTRIES, INC</u> PO BOX 991 WALLA WALLA WA Cell: 509.520.1414 Phone: 509.525.9143 Fax: 509.525.4031		Ship To: <u>502 N 13TH ST</u> Phone: Fax:	
CUSTOMER ORDER #	DOWN PAYMENT:	SERIAL NUMBER:	FREIGHT:
	INVOICE	C - 8774	PREPAID
SCHEDULED COMPLETION DATE WEEK OF:		DESCRIPTION:	
05/30/05		LP12, WM, EZ CAL	
DETAIL DESCRIPTION			

"LO-PRO" 12 CONCRETE BATCH PLANT

"NATIONAL READY MIX CONCRETE ASSOCIATION (NRMCA) ENDORSES THE MEMBERS OF THE CONCRETE PLANT MANUFACTURERS BUREAU (CPMB) AS THE PREFERRED PROVIDER OF CONCRETE PLANTS AND ASSOCIATED EQUIPMENT AS PROVIDING QUALITY EQUIPMENT CONFORMING TO THE STANDARDS AND SPECIFICATIONS OF NRMCA'S PLANT CERTIFICATION PROGRAM AND THE CONCRETE PLANT MANUFACTURERS STANDARDS"

CONSTRUCTION:

- RIGHT HAND CONFIGURATION
- STRUCTURE DESIGNED TO HOLD UBC 97, NON-SEISMIC LOADS, 90 MPH

Sales Order: 55263 Customer Name: KONCRETE INDUSTRIES, INC

FASTEST MILE WIND, ANY CODE OTHER THAN UBC WILL BE SUBJECT TO NEW PRICING

AGGREGATE STORAGE BIN WITH THE FOLLOWING SPECIFICATIONS:

- 59 CUBIC YARD X TWO (2) COMPARTMENT AGGREGATE BIN
- EIGHT (8) FILL GATES EACH WITH 4 1/2" DIAMETER AIR CYLINDERS AND QUICK DUMP VALVE - GATES OPERATED WITH 1/2" SINGLE SOLENOID VALVE
- SINGLE POINT AGGREGATE GATE LUBRICATION FURNISHED FOR MANUALLY OPERATED PUMP GREASE GUN
- EQUAL IN LINE COMPARTMENTS
- "ALKON" PROBE IN EACH BIN
- HINGED AND PINNED AGGREGATE BIN

AGGREGATE BATCHER WITH THE FOLLOWING SPECIFICATIONS:

- 12 CUBIC YARD CAPACITY
- AGGREGATE BATCHER CAPACITIES SIX (6) OF EIGHT (8) GATES
- MAIN LEVERS AND SINGLE LOAD CELL LESS DIGITAL READOUT
- REAR MOUNTED AIR VIBRATOR
- TELESOPING SCALE WEIGHT HANGERS
- 30" X 10 H.P. BATCHER CONVEYOR
- VARIABLE SPEED BATCHER CONVEYOR
- DISCHARGE STOP / FEED INTERLOCK

MIXER CHARGING CONVEYOR WITH THE FOLLOWING SPECIFICATIONS:

- 30" X 35 DEGREE IDLERS X 10 H.P. MIXER CHARGING CONVEYOR

CEMENT I STORAGE BIN WITH THE FOLLOWING SPECIFICATIONS:

- 215 BBL IN TRUSS CEMENT I STORAGE BIN - TOTAL STORAGE 860 CUBIC FEET (MAXIMUM 215 BBL - MINIMUM 179 BBL)
- MANHOLE WITH INSIDE LADDER
- TWO (2) - 5" DIAMETER FILL PIPE SYSTEMS EACH WITH 4" COUPLING - LOCATE ONE (1) PER SIDE
- MODEL PJC-300S SILO DUST CONTROL SYSTEM
 - 8 EACH FILTER CARTRIDGES - 8" DIAMETER 40" LONG
 - 304 SQUARE FEET CLEANING AREA


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- HIGH PRESSURE AIR – PULSE JET CLEANING SYSTEM
- 1,520 C.F.M. CAPACITY
- ALL WELDED STEEL ENCLOSURE
- 7" DIAMETER WEIGHED PRESSURE RELIEF VALVE
- HIGH BIN SIGNAL
- LOW BIN SIGNAL
- EXTERIOR MOUNTED LIGHTS AND HORN
- ONE (1) 12" DIAMETER X 20 H.P. X 16'-6" LONG SCREW CONVEYOR
 - THEORETICAL CAPACITY - 132 CUBIC FEET PER MINUTE
 - 12 3/4" DIAMETER HOUSING WITH 12" DIAMETER FLIGHTING - 2/3 PITCH AT INLET WITH BALANCE FULL PITCH
 - GEAR REDUCER DRIVE
- ONE (1) - 9" DIAMETER X 15 H.P. X 16'-6" LONG SCREW CONVEYOR
 - THEORETICAL CAPACITY - 54 CUBIC FEET PER MINUTE
 - 10" DIAMETER HOUSING WITH 9" DIAMETER FLIGHTING - 2/3 PITCH AT INLET WITH BALANCE FULL PITCH
 - DIRECT DRIVE WITH GUARDED V-BELT REDUCTION

CEMENT BATCHER WITH THE FOLLOWING SPECIFICATIONS:

- 12 CUBIC YARD CAPACITY
- MAIN LEVERS AND SINGLE LOAD CELL LESS DIGITAL READOUT
- 14" DIAMETER X 15 H.P. BATCHER SCREW
- 12" DIAMETER BUTTERFLY TYPE DISCHARGE VALVE WITH 3" DIAMETER AIR CYLINDER AND 3/8" DOUBLE SOLENOID "INCHING" VALVE
- BV-14 BATCHER DUST CONTROL SYSTEM
 - 14 EACH FILTER BAGS – 4" DIAMETER 16" LONG
 - 20 SQUARE FEET CLEANING AREA
 - ATMOSPHERE PRESSURE CLEANING SYSTEM
- TWO (2) VIBRATORS
- DISCHARGE CLOSED / FEED INTERLOCK

HIGH PRESSURE AIR SYSTEM WITH THE FOLLOWING SPECIFICATIONS:

- 10 H.P. X 120 GALLON AIR COMPRESSOR
 - ALL PIPING TO INCLUDE REGULATOR, FILTER AND LUBRICATORS
 - SOLENOID VALVES MOUNTED ON MANIFOLDS
- 

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- AIR "LOCK-OUT" FURNISHED AT COMPRESSOR TANK

LOW PRESSURE AIR SYSTEM WITH THE FOLLOWING SPECIFICATIONS:

- 5 H.P. LOW PRESSURE HIGH VOLUME CEMENT AERATION BLOWER
- EIGHTEEN (18) CEMENT I AERATION PADS AND MANIFOLD
- EIGHT (8) CEMENT II AERATION PADS AND MANIFOLD

WATER SYSTEM WITH THE FOLLOWING SPECIFICATIONS:

- 350 GPM X 10 H.P. WATER PUMP
- 515-3" WATER METER WITH 3" STRAINER AND 3" PIPING
- TWO (2) 3" FEED VALVES
- SEVEN (7) ADMIXTURE COUPLINGS

ELECTRICAL SYSTEM WITH THE FOLLOWING SPECIFICATIONS:

- 460 VOLT
- MAIN DISCONNECT WITH CIRCUIT BREAKER
- ALL MOTOR CONTROLS PROTECTED WITH CIRCUIT BREAKER
- NEMA 12 ENCLOSURES
- U.L. LISTED PANELS
- 15 KVA TRANSFORMER AND DUPLEX RECEPTACLE MOUNTED ON SERVICE PANEL
- WIRING AND CONDUIT FOR FUTURE PJ-980 15 H.P. DUST COLLECTOR
- PLUG IN CONNECTION WITH SUBFEED FOR FUTURE 25HP RAIL STACKER, SHIP MATING CONNECTOR LOOSE

TRANSPORTATION SYSTEM WITH THE FOLLOWING SPECIFICATIONS:

- TANDEM AXLE
- BUDD WHEELS
- EXTENDED HEIGHT MOBILE PACKAGE INCLUDING THE FOLLOWING:
 - SELF ERECT HYDRAULICS WITH FOUR CYLINDERS AND GAS ENGINE
 - HINGED DISCHARGE HOOD
 - CEMENT I BIN DUST CONTROL QUICK RELEASE CLAMPS
 - BATCHER DUST CONTROL QUICK RELEASE CLAMPS
 - HINGED LOWER SUPPORT COLUMNS

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- PJC-3008 BRACKET IN REAR OF PLANT
- PJ-980 MOBILE STYLE SUPPORTS

120 y³/hr

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BATCHING CONTROLS WITH THE FOLLOWING SPECIFICATIONS:

- "COMMAND ALKON" 2000 EZ-CAL COMPUTERIZED BATCH CONTROL
- ORDER ENTRY SYSTEM
- 4 AGGREGATES
- 3 CEMENTS
- 2 METERED WATERS
- 6 ADMIXES
- REMOTE DIAGNOSTICS
- FAST BATCH
- "COMMAND ALKON" FACTORY START-UP
- 75'-0" CONTROL AND SCALE CABLES

START UP ASSISTANCE:

- UP TO THREE (3) DAY START UP ASSISTANCE BY "CON-E-CO" FIELD SERVICE TECHNICIAN
- BATCH PLANT MUST BE READY TO BEGIN PRODUCING CONCRETE
- SCALES CALIBRATED
- REQUIRED WATER SERVICE
- REQUIRED ELECTRICAL SERVICE
- MATERIAL IN AGGREGATE BIN
- MATERIAL IN SILOS
- BATCHING CONTROL INSTALLED WITH PLANT

PAINT:

- COLOR: CASE WHITE



SPECIFICATIONS FOR MODEL 30-250 SILO DUST CONTROL

MODEL 30-250 SPECIFICATIONS

TOTAL CLOTH AREA	250 SQ. FT.
NUMBER OF BAGS	30
HOUSING WIDTH & LENGTH	2'-7" X 3'-0"
CAPACITY FOR CEMENT	1500 SCFM (Recommended Maximum)
CAPACITY FOR FLYASH	1000 SCFM (Recommended Maximum)
BAG CLEANING METHOD	HIGH FREQUENCY AIR VIBRATOR
CLEANING INTERVAL	30 TONS OF MATERIAL (1 LOAD) OR EVERY 15 MIN FOR 3 MIN
MAXIMUM OPERATING TEMPERATURE	275 DEGREES F
CAPACITY FOR HYDRATED LIME	1000 SCFM (Recommended Maximum)
DISCHARGE SHAPE	(2) 2" X 36" SLOTS
NORMAL OPERATING TEMP & PRESSURE	AMBIENT
DISCHARGE AREA	1 FT ² (144 IN ²)
CFM/FT ² THROUGH BAGS	6-(CEMENT) 4-(FLYASH & HYDRATED LIME)
AIR SPEED OUT OF DEVICE	1500 FT / MIN (CEMENT) (@ 3 TRUCKS UNLOADING)
DIRECTION OF AIR DISCHARGE	DOWN (W/O BLOWER)

BAG SPECIFICATIONS

BAG DIAMETER	5"
BAG LENGTH	77"
CONSTRUCTION	SEAMLESS
FIBER	WOVEN POLYESTER
FINISH	HEAT SET
WEIGHT	8.5 +/- 0.5 OZ./SQ. YD.
THICKNESS	0.022"
MULLEN BURST	275 PSI (Min)
PERMEABILITY RANGE (0.5" WATER)	30-55 CFM/SQ. FT.
BAG EFFICIENCY	99.9% (*)
NEBRASKA APPROVED SYSTEM EFFICIENCY	PM10 : 95% (**) PM : 98% (**)

SILO VENT (***)

LB / HR

GR / FT³

OUT OF BAGS

FOR VACUUM SYSTEMS OUT OF BAGS VALUES, MULTIPLY THE INTO BAGS VALUES BY .031.

FOR SEALED CEMENT SILOS, MULTIPLY THE INTO BAGS VALUES BY 0.001.

INTO BAGS

.07 LB/YD³ (YD³/HR) - SUM OF ALL VENTS ***
2.18 (CFM INCREASES WITH YD³/HR)

* BASED ON TESTS BY THE UNIVERSITY OF TENNESSEE.

** APPROVED WITHOUT INDIVIDUAL SITE STACK TESTS.

***VALUES ARE TOTALS FOR ALL CEMENT LOADING BAG COLLECTORS.
DIVIDE UP ACCORDINGLY.



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E-MAIL: sales@con-e-co.com ■ WEBSITE: www.con-e-co.com





SPECIFICATIONS FOR MODEL 14-23 CEMENT BATCHER VENT

MODEL 14-23 SPECIFICATIONS

TOTAL CLOTH AREA
NUMBER OF BAGS
HOUSING HEIGHT (WITH BLOWER)
HOUSING WIDTH & LENGTH
BAG CLEANING METHOD

MAXIMUM OPERATING TEMPERATURE
CAPACITY
DISCHARGE SHAPE
CFM/FT² THROUGH BAGS
AIRSPEED OUT OF DEVICE
DIRECTION OF AIR DISCHARGE
DISCHARGE AREA
NORMAL OPERATING TEMP & PRESSURE

23 SQ. FT.
14
1'-10"
0'-10" X 2'-11"
REVERSE AIR FLOW
(From batcher filling and emptying)
170 DEGREES F
180 CFM MAXIMUM
(2) 2" X 12" SLOTS
7.83 MAXIMUM
545 FT / MIN
DOWN
.33 FT² (48 IN²)
AMBIENT

BAG SPECIFICATIONS

BAG DIAMETER
BAG LENGTH
CONSTRUCTION
FIBER
FINISH
WEIGHT
THICKNESS
MULLEN BURST
PERMEABILITY RANGE (0.5" WATER)
BAG EFFICIENCY

4-1/2" DIA.
16"
3 X 1 TWILL
POLYESTER
GREIGE
7.1 OZ/SQ. YD.
0.019"
275 PSI (Min)
30-55 CFM/SQ. FT.
99.9% (%)

BATCHER VENT

LB / HR
GR / FT³

INTO BAGS

(.04 LB / YD³) * (___ YD³ / HR)
(.648 GR / LB FT³) * (___ LB / HR)

OUT OF BAGS

FOR ALL OUT OF BAGS VALUES, MULTIPLY THE INTO BAGS VALUES BY 0.001.

* BASED ON TESTS BY THE UNIVERSITY OF TENNESSEE.



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E-MAIL: sales@con-e-co.com ■ WEBSITE: www.con-e-co.com





BV Series Batcher Vent MAINTENANCE & OPERATION

OPERATION

The CON-E-CO BV Series Batcher Vents are designed for efficient operation and cleaning. The contaminated air enters the dust collector through its bottom flanged opening at the top of the weigh batcher. In the weigh batcher, many of the heavy dust particles settle out of the air stream due to a reduction of air velocity. From the weigh batcher, the dust laden air flows up through the inside of the filter bags where the dust particles are trapped by the filter bags thus allowing the clean air to pass through the bags into the clean air chamber. From there, the air flows through the exhaust opening and into the atmosphere.

BAG CLEANING

A vacuum is created inside the weigh batcher as the batcher is emptied. This vacuum reverses the air through the bags and pulls collected material from the bags back down inside the weigh batcher.

Examine the bags each week to check for excessive build up on the inside of the bags. The best efficiency and longest bag life is obtained by cleaning the bags as often as necessary. A thin even coating of material should coat the inside of the filter bags for the most effective filtration. The dust cakes on the inside of the bags to help filter the fine particles; so if bags are cleaned too often, part of their cleaning efficiency is lost.

MAINTENANCE

The filter bags can be removed and inspected for tears and thin places. Laundering, mending or repair of the seamless bags is not recommended. The bags are made of seamless woven polyester fabric and if laundered shrinking may take place. Replacement bags are available from CON-E-CO.

SPARE PARTS

Parts should be ordered from Manufacturer to insure compatibility. If parts are needed, obtain serial number from the name plate and call the factory. A complete detailed record of the vent is on file at CON-E-CO.

SAFETY INFORMATION

This CON-E-CO dust collector, like other industrial equipment, must be operated and maintained in accordance with our instructions and sound engineering practices. The user of this equipment must always be aware of the physical and chemical properties of the dust particles being collected. Materials or processes presenting such hazards must be identified by the user.



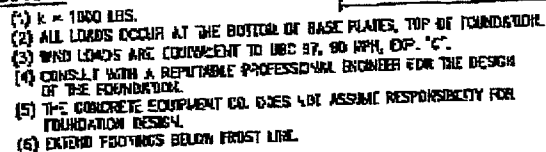
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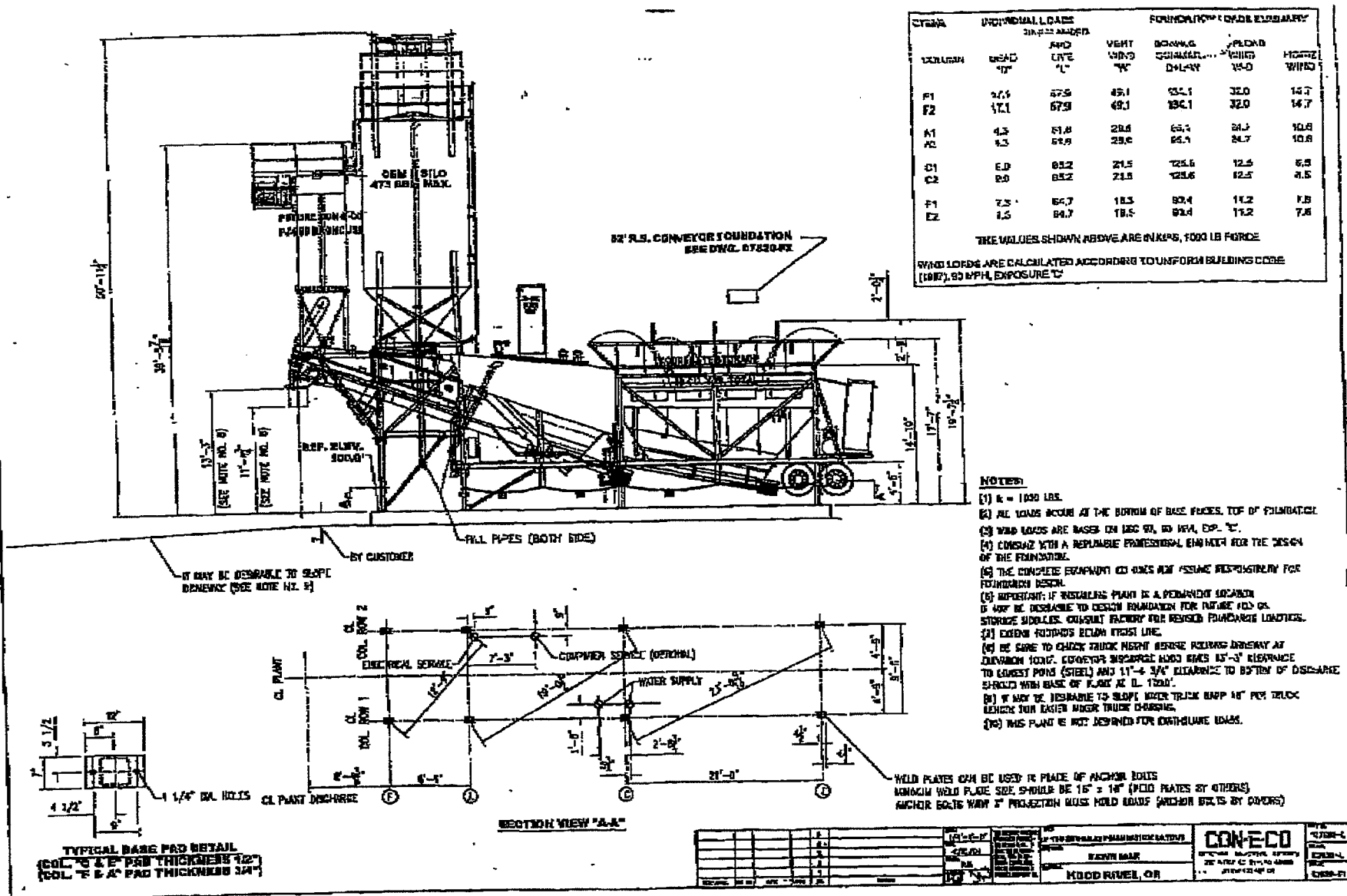
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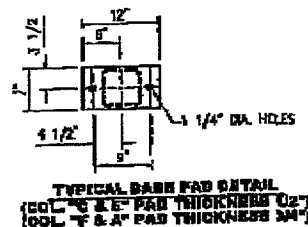
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		5	NOTE	THIS DOCUMENT CONTAINS	THIS	CON-ECO CONCRETE EQUIPMENT COMPANY 237 N. GUN SH. BLVD. SE 96006 PHONE 408-222-1111
		4	1/8"-1'-0"	PROPERTY RIGHTS	82' R.S. FOUNDATION LAYOUT	
		3	5/23/04	ART BARRIERS, ETC.	DATE	
		2		ALL CITY & CO.	TOWN MAP	
		1	R/S	RECEIVED BY REQUESTED BY	LOCATION	
DATE	APP'D.	NAME, HOOD RIVER, OR		HOOD RIVER, OR		





SECTION VIEW "A-A"

NOTES:

- (1) k = 1000 lbs.
- (2) ALL LOADS OCCUR AT THE BOTTOM OF RISE FLUTES, BEF. OF FOUNDATION.
- (3) WIND LOADS ARE BASED ON WEC 97, 10 WPA, EXP. "C".
- (4) CONSULT WITH A REPUTABLE PROFESSIONAL ENGINEER FOR THE DESIGN OF THE FOUNDATION.
- (5) THE SUPPLIER EQUIPMENT TO BEES WITH "SINGLE RESPONSIBILITY" FOR FOUNDATION DESIGN.
- (6) IMPORTANT: IF INSTALLING PLANT IS A PERMANENT LOCATION IT MAY BE DESIRABLE TO DESIGN FOUNDATION FOR WIND AND/OR STORAGE MODEALS. CONSULT FACTORY FOR REVED FOUNDATION DIMENSIONS.
- (7) EXISTING FOOTINGS BELOW MUST BE OK.
- (8) BE SURE TO CHECK TRUCK HEIGHT BEFORE PARKING INSTEAD AT ELEVATION 102.0'. OTHERWISE DISCHARGE HOOD RIMS 13'-3" AWAYANCE TO GRASSY PLOT (SEEK) AND 12'-4" CLEARANCE TO BOTTOM OF DISCHARGE SPEEDS WITH BASE OF PLANT AT 102.0'.
- (9) IT MAY BE DESIRABLE TO SLOPE UNDER TRUCK RAMP "UP" FOR TRUCK LEAVE FOR EASIER WATER TRUCK CHANGING.
- (10) THIS PLANT IS NOT DESIGNED FOR CARBONATE SEAS.

WELD PLATES CAN BE USED IN PLACE OF ANCHOR BOLTS
MINIMUM WELD PLATE SIZE SHOULD BE 16" x 16" (WELD PLATES BY OTHERS)
ANCHOR BOLTS WITH 2" PROJECTION MUST HOLD LOADS (ANCHOR BOLTS BY OTHERS)

[illegible]

ELECTRICAL REQUIREMENTS

Page 2

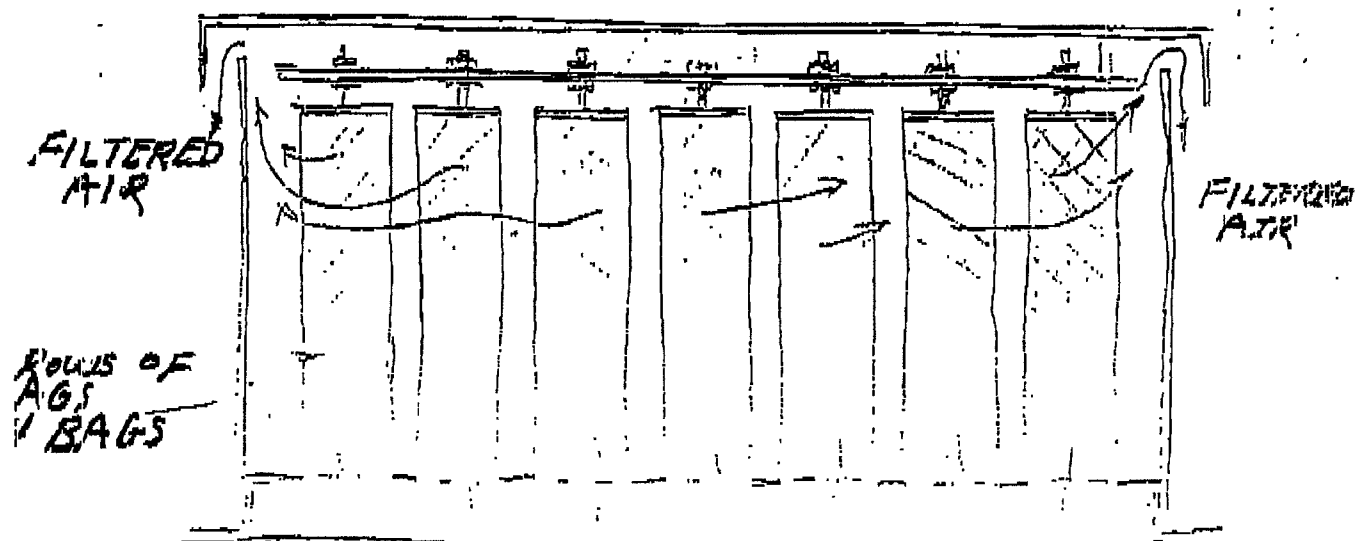
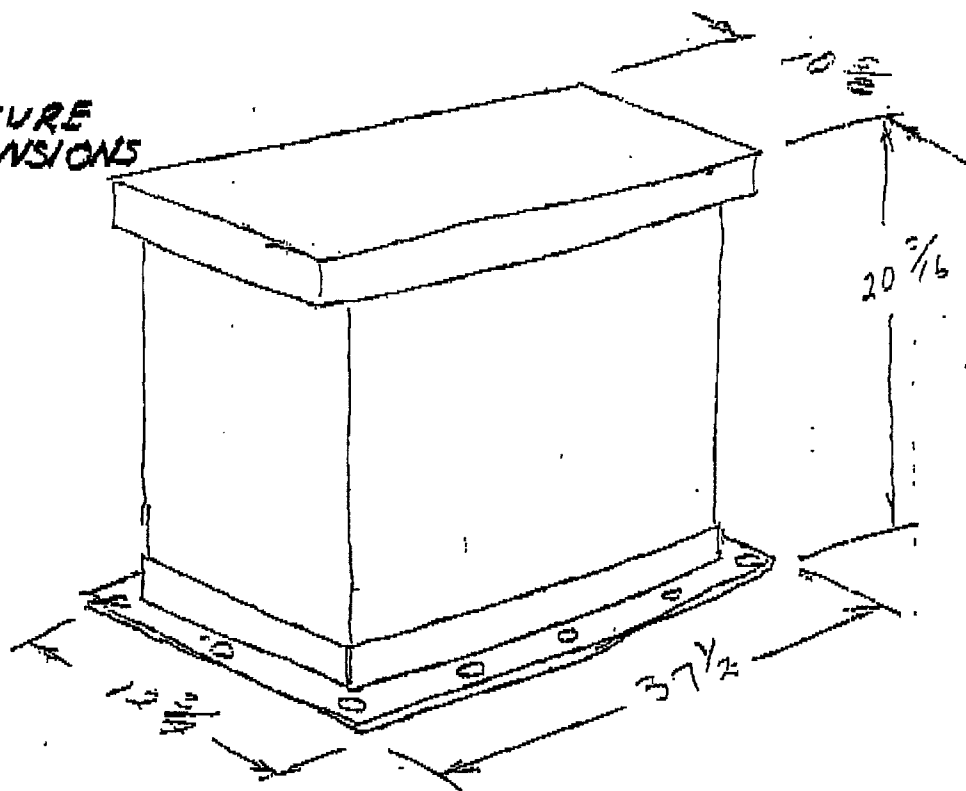
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AUX. CHARGING CONVEYORS							Wire Size	
	HP	FLA	CB	Str	Heater		Min	Normal
1.5 KVA Transformer		3.3						
Conveyor 1	25.00	31.0	70	#2	B56		8	8
Traversing Drive	2.00	2.7	15	#00	B4.15		14	12
Total Connected	27.00	36.96						
+25% of Largest Motor	25.00	7.75					Actual	
Running Design Load		44.71	Running Design				35.62	KVA
+5 x Largest Motor		155.00						
Starting Design Load		199.71	Starting Design				159.11	KVA
75 KVA Transf. Volt Drop=	7.74%	Starting, and			1.73%		when running.	
112.5 KVA Transf. Volt Drop=	5.16%	Starting, and			1.16%		when running.	

GRAND TOTAL								
	HP	FLA						
Total Connected	136.50	179.77						
+25% of Largest Motor	25.00	8.15					Actual	
Running Design Load		187.92	Running Design				149.72	KVA
+5 x Largest Motor		163.04						
Starting Design Load		350.97	Starting Design				279.62	KVA
112.5 KVA Transf. Volt Drop=	9.07%	Starting, and			4.86%		when running.	
Note: This will create a	33.09%	continuous overload w/listed items.						
150 KVA Transf. Volt Drop=	6.80%	Starting, and			3.64%		when running.	
225 KVA Transf. Volt Drop=	4.53%	Starting, and			2.43%		when running.	

BY-14-23

ENCLOSURE
DIMENSIONSCONTAMINATED AIR
CROSS SECTION OF BY-14-23



30-250 Filter Vent MAINTENANCE & OPERATION

OPERATION

The CON-E-CO 30-250 Filter Vents are designed for efficient operation and cleaning. The contaminated air enters the dust collector through its bottom flanged opening at the top of the silo. In the silo, many of the heavy dust particles settle out of the air stream due to a reduction of air velocity. From the silo, the dust laden air flows up through the inside of the filter bags where the dust particles are trapped by the filter bags thus allowing the clean air to pass through the bags into the clean air chamber. From there, the air flows through the exhaust opening and into the atmosphere.

BAG CLEANING

The 30-250 filter vent cleans the filter bags with a vibrator located above the bags. The cleaning cycle is activated after the delivery truck has finished unloading. The duration is adjusted by the operator. Materials are vibrated free while cleaning the bags. These materials fall back into the silo.

Examine the bags each week to check for excessive build up on the inside of the bags. If excessive build up occurs, decrease the time between cleaning cycles. The best efficiency and longest bag life is obtained by cleaning the bags as often as necessary. A thin even coating of material should coat the inside of the filter bags for the most effective filtration. The dust cakes on the inside of the bags to help filter the fine particles; so if bags are cleaned too often, part of their cleaning efficiency is lost.

MAINTENANCE

The filter bags can be removed and inspected for tears and thin places. Laundering, mending or repair of the seamless bags is not recommended. The bags are made of seamless woven polyester fabric and if laundered shrinking may take place. Replacement bags are available from CON-E-CO.

SPARE PARTS

Parts should be ordered from Manufacturer to insure compatibility. If parts are needed, obtain serial number from the name plate and call the factory. A complete detailed record of the vent is on file at CON-E-CO.

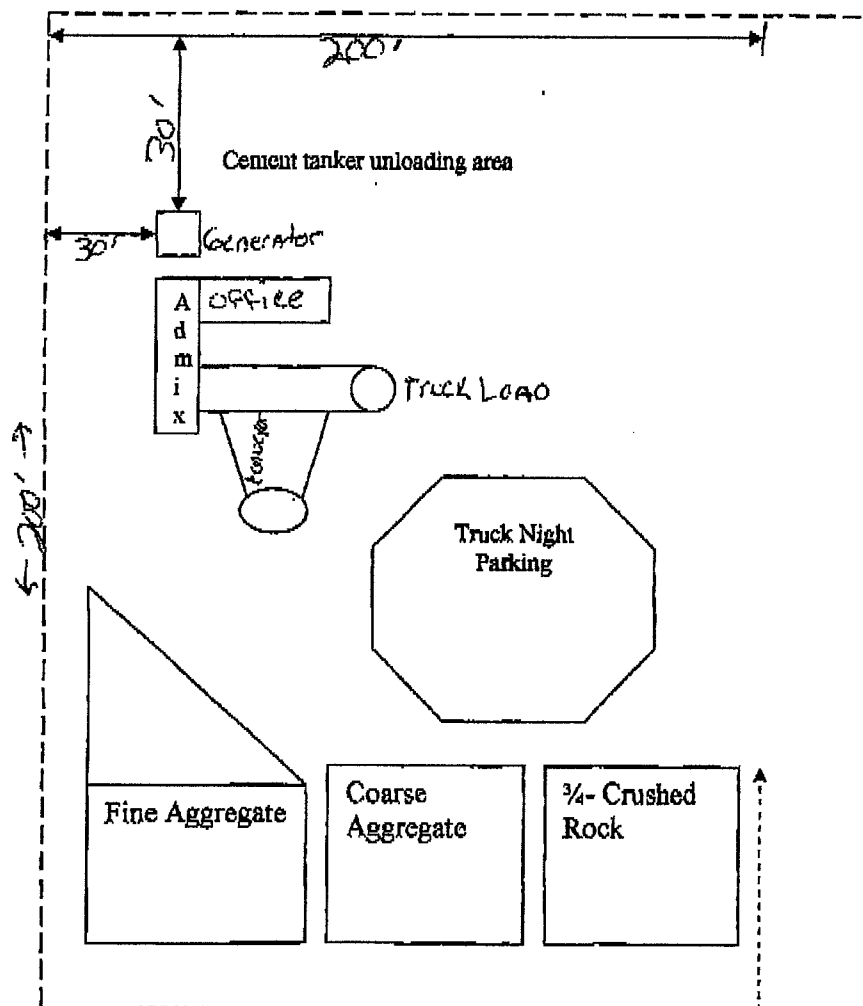
SAFETY INFORMATION

This CON-E-CO dust collector, like other industrial equipment, must be operated and maintained in accordance with our instructions and sound engineering practices. The user of this equipment must always be aware of the physical and chemical properties of the dust particles being collected. Materials or processes presenting such hazards must be identified by the user.



QUALITY ■ PERFORMANCE ■ SERVICE
237 N. 15TH STREET ■ P.O. BOX 430 ■ BLAIR, NE 68008
(402) 426-4181 ■ OFFICE FAX (402) 426-4180 ■ ENGINEERING FAX (402) 426-4190
E-MAIL: sales@con-e-co.com ■ WEBSITE: www.con-e-co.com







DCA180SSJ

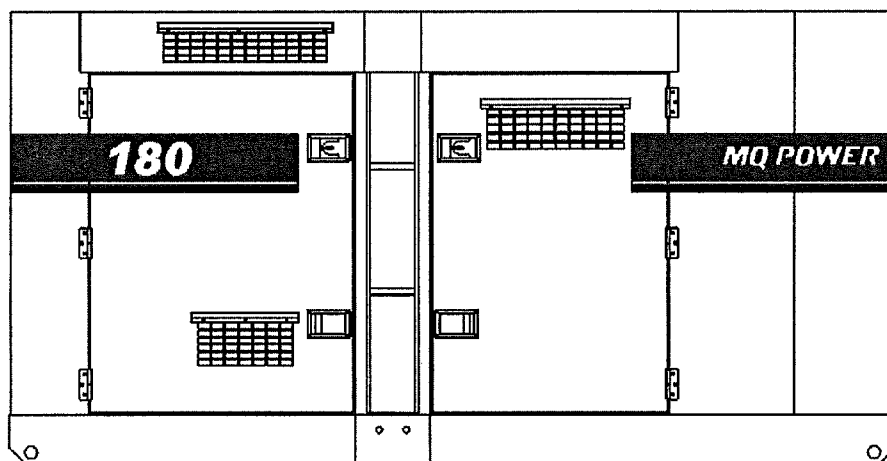
WhisperWatt™ Generator

WhisperWatt™ 180kW

Prime Rating: 144 kW (180 kVA)

Standby Rating: 158 kW (198 kVA)

60 Hertz



Standard Features

- **Heavy duty, 4-cycle, direct injection, turbocharged, air to air intercooled diesel engine** provides maximum reliability.
- **Brushless alternator** reduces service and maintenance requirements and meets temperature rise standards for Class F insulation systems.
- **Open delta alternator design** provides virtually unlimited excitation for maximum motor starting capability.
- **Automatic voltage regulator (AVR)** provides precise regulation.
- **Electronic governor system** maintains frequency to $\pm 0.25\%$.
- **Full load acceptance** of standby nameplate rating in one step (NFPA 110, para 5-13.2.6).
- **Sound attenuated, weather resistant, steel housing** provides operation at 72 dB(A) at 23 feet. Fully lockable enclosure allows safe unattended operation.
- **Internal fuel tank** with direct reading fuel gauges are standard.
- **Fuel/water separator** removes condensation from fuel for extended engine life.
- **Seven stage powder coat paint** provides durability and weather protection.
- **Emergency stop switch**
- **Complete engine analog instrumentation** includes DC ammeter, oil pressure gauge, water temp. gauge, fuel level gauge, tachometer/hour meter, manual engine speed control, and emergency shutdown monitors.
- **Complete generator analog instrumentation** includes voltage regulator control, ammeter phase selector switch, voltmeter phase selector switch, AC voltmeter, AC ammeter, frequency meter, panel light, and circuit breaker.
- **Automatic safety shutdown system** monitors the water temperature, engine oil pressure, overspeed, and overcrank. Warning lights indicate abnormal conditions.
- **Low coolant level shutdown system** provides protection from critically low coolant levels. Includes control panel warning light.
- **Auto start/stop control** allows generator to start automatically in the event of a commercial power failure.
- **Complete power panel.** Fully covered; three-phase terminals and single phase receptacles allow fast and convenient hookup for most applications including temporary power boxes, tools and lighting equipment. All are NEMA standard.
- **EPA-MOH emissions certified** - Tier 3 emissions compliant.



DCA180SSJ

WhisperWatt™ Generator

Specifications

Generator Specifications

Design	Revolving field, Self-ventilated, Drip-proof, Single bearing
No. of Poles	4-pole
Excitation	Brushless with AVR
Standby Output	158 KW (198 KVA)
Prime Output	144 KW (180 KVA)
Generator RPM	1800
Voltage - 3 phase	208, 220, 240, 415, 440, 480V Reconnectable
Voltage - single phase	120, 127, 139, 240, 254, 277V Adjustable
Armature Connection	Star with neutral
Voltage Regulation (No load to full load)	±1.0%
Power Factor	0.8
Frequency	60 Hz
Frequency Regulation: No Load to Full Load	Isochronous under varying loads from no load to 100% rated load
Frequency Regulation: Steady State	±0.25% of mean value for constant loads from no load to full load
Insulation	Class F
Sound Level dB(A) Full load at 23 feet	72

Engine Specifications

Make/Model	John Deere / 6068HF485
Emissions	EPA Tier 3 Certified
Starting System	Electric
Design	4-cycle, Watercooled, Direct injection, Turbocharged, Air to air intercooled
Displacement	6800 cc
No. cylinders	6
Bore x Stroke (mm)	106 x 127
Gross Engine Power Output	315 hp (235 kW)
BMEP	304 psi (2094 kPa)
Piston Speed	1134 ft/min (5.76 m/s)
Compression Ratio	17 : 1
Engine Speed	1800 rpm
Overspeed Limit	2100 rpm
Oil capacity gallons (liters)	8.69 (32.9)
Battery	12V 128 Ah

Fuel System

Recommended Fuel	ASTM-D975-No.1 or No. 2-D	
Maximum Fuel Flow (per hour)	22.7 gal. (85.9 L)	
Maximum Inlet Restriction (Hg)	5.9 in. (150 mm)	
Fuel Tank Capacity	100 gal. (380 L)	
Fuel Consumption	gph	lph
full load	11.4	43.0
75% load	9.0	34.1
50% load	6.6	25.1
25% load	4.3	16.2

Amperage

Rated Voltage	Maximum Amps
1Ø 120 Volt	400.0 amp (4 wire)
1Ø 240 Volt	200.0 amp (4 wire)
3Ø 240 Volt	433 amp
3Ø 480 Volt	216 amp

Cooling System

Fan Load	21.5 hp (16 kW)
Coolant Capacity (with radiator)	6.3 gal. (24 L)
Coolant Flow Rate	70 gal. (265 L)
Heat Rejection to Coolant	5404 Btu (5.7 MJ)
Heat Radiated to Room	3264 Btu (3.44 MJ)
Maximum Coolant Friction Head	2 psi (13.8 kPa)
Maximum Coolant Static Head	21 ft. (6.4)
Ambient Temperature Rating	104°F (40°C)

Air

Combustion Air	619 cfm (17.5 m³/min)
Maximum Air Cleaner Restriction	25.0 in H²O (6.25 kPa)
Alternator Cooling Air	1459 cfm (41.3 m³/min)
Radiator Cooling Air	8120 cfm (230 m³/min)
Minimum Air Opening to Room	14.8 sq. ft. (1.38 sq. m)
Minimum Discharge Opening	6.71 sq. ft. (0.62 sq. m)

Exhaust System

Gas Flow (full load)	1371 cfm (38.8 m³/min)
Gas Temperature	905°F (485°C)
Maximum Back Pressure	40.0 in. H²O (10 kPa)

Warranty*

John Deere Engine

12 months from date of purchase and unlimited hours or 24 months from date of purchase with 2000 hours (whichever occurs first).

*Refer to the express written, Engine warranty sheet for additional coverage information.

Generator

24 months from date of purchase or 2000 hours (whichever occurs first).

*Refer to the express written, one-year limited warranty sheet for additional information.

Trailer

12 months excluding normal wear items.

Backfeed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device.

Specifications are subject to change without notice.



DCA180SSJ

WhisperWatt™ Generator

MQ POWER DECIBEL LEVELS

Our soundproof housing allows substantially lower operating noise levels than competitive designs. WhisperWatts are at home on construction sites, in residential neighborhoods, and at hospitals — just about anywhere.

- ⑨0 — Subway / truck traffic
- ⑧0 — Average city traffic
- ⑦0 — Inside car at 60 mph
- ⑥0 — Air conditioner at 20 feet
- ⑤0 — Normal conversation

72.0
DECIBELS



Optional Control Features

- ☐ **Audible alarm** — alerts operator of abnormal conditions.

Optional Fuel Cell Features

- ☐ **Trailer fuel tank** — a second fuel cell located in the trailer allows for extended run time.
- ☐ **Sub-base fuel cells (double wall)** — Additional fuel cell for extended runtime operation. Contains a leak sensor, low fuel level switch, and a secondary containment tank. UL142 listed.
 - ☐ 12 hours of minimum run time.
 - ☐ 24 hours of minimum run time.

Optional Generator Features

- ☐ **Battery charger** — provides fully automatic and self-adjusting charging to the generator's battery system.
- ☐ **Jacket water heater** — for easy starting in cold weather climates.
- ☐ **Special batteries** — long life batteries provide extra engine cranking power.
- ☐ **Spring isolaters** — provides extra vibration protection for standby applications.
- ☐ **Trailer mounted package** — highway legal trailer with electronic or surge brakes with tandem axle configuration. Extra capacity fuel tanks are also available.

Optional Output Connections

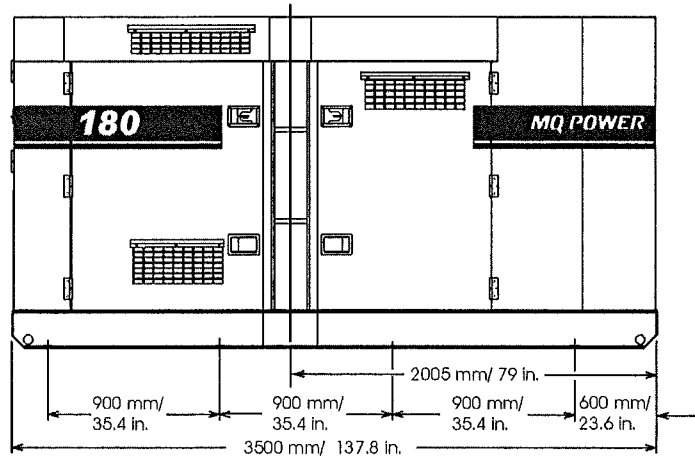
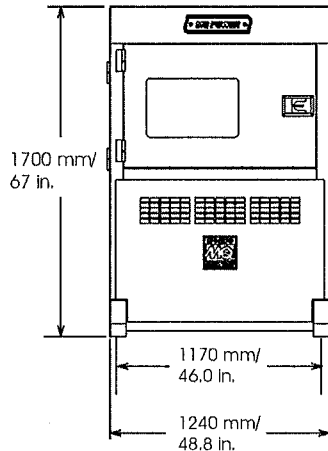
- ☐ **Cam-Loks** — provides quick disconnect alternative to bolt-on connectors.
- ☐ **Pin and Sleeve Connectors** — provides industry standard connectors for all voltage requirements.
- ☐ **Output Cable** — available in any custom length and size configuration.



DCA180SSJ

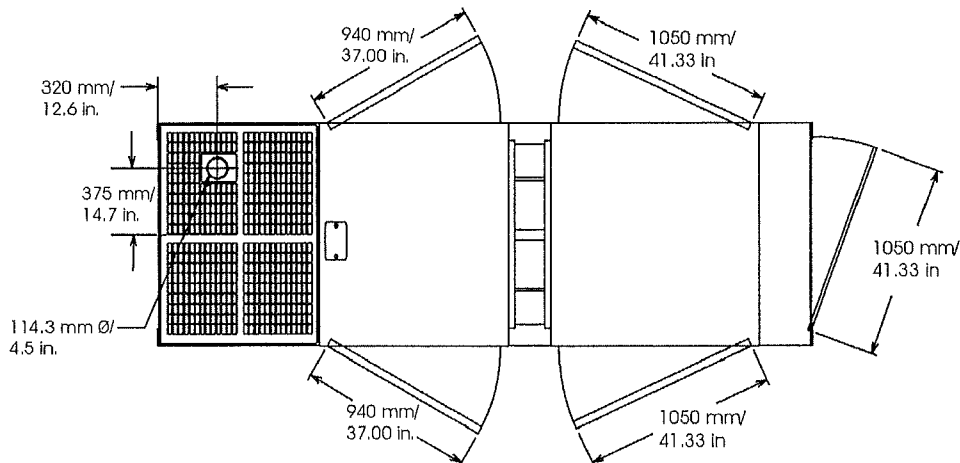
WhisperWatt™ Generator

Dimensions



Weight

Dry Weight	6571 lbs. (2980 kg)
Wet Weight	7489 lbs. (3400 kg)



Manufactured by Denyo Co.

Your MQ Power dealer is:



MQ POWER
POST OFFICE BOX 6254
CARSON, CA 90749
310-537-3700 • 800-883-2551
FAX: 310-604-3831
E-MAIL: mqpower@multiquip.com
WEBSITE: www.mqpower.com

EXHAUST EMISSION DATA SHEET**MQ POWER GENERATOR SET****Model: DCA180SSJ**

The engine used in this generator set is certified to comply with
United States EPA Tier 3 and CARB Mobile Off-Highway emission regulations.

ENGINE DATA

Manufacturer:	JOHN DEERE	Bore:	4.17 in. (106 mm)
Model:	6068HF485	Stroke:	5.00 in. (127 mm)
Type:	4-Cycle Diesel, In-Line, 6-Cylinder	Displacement:	415 cid (6.8 liters)
Aspiration:	Turbocharged, Air-To-Air Intercooler	Compression Ratio:	17:1

PERFORMANCE DATA

SAE Gross HP @ 1800 RPM (60 Hz)	315
Rated Load Fuel Consumption (gal/Hr)	11.4
Rated Load Exhaust Gas Flow (cfm)	1371
Rated Load Exhaust Gas Temperature (F)	905

United States EPA - Mobile Off-Highway Tier 3 Limits - ≥ 302 BHP - ≤ 602 BHP

Criteria Pollutant	Emission Requirements	Certified Engine Emissions
NOx (Oxides of Nitrogen as NO ₂)	2.98 gr/bhp-hr	2.53 gr/bhp-hr
HC (Total Unburned Hydrocarbons)	(NOx + HC)* Combined	(NOx + HC)* Combined
CO (Carbon Monoxide)	2.61 gr/bhp-hr	0.45 gr/bhp-hr
PM (Particulate Matter)	0.15 gr/bhp-hr	0.08 gr/bhp-hr

EPA Engine Family:	7JDXL06.8101
EPA Certificate of Conformance:	JDX-NRC1-07-01
ARB Executive Order:	U-R-004-0280
Effective Date:	Model Year 2007

Note: Engine operation with excessive air intake or exhaust restriction beyond factory published maximum limits, or with improper service maintenance, may result in higher emission levels.

ATTN: Troy
per Dale @ Romero
Construction
3 pgs

 CALIFORNIA AIR RESOURCES BOARD California Environmental Protection Agency	JOHN DEERE POWER SYSTEMS OF DEERE	EXECUTIVE ORDER U.R.-004-0280 New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2007	7JDXL06.8101	4.5, 6.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Engine Control Module, Turbocharger, Charge Air Cooler, Exhaust-Gas Recirculation (EGR)			Loader, Tractor, Pump, Compressor, Generator Set, Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kW-hr); and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

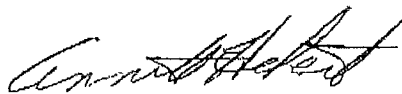
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
130 ≤ kW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	-	-	3.4	0.6	0.11	8	1	14

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 20 day of December 2006.

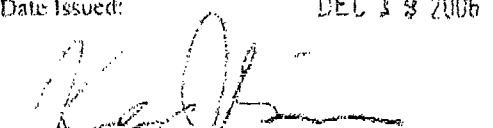


Annette Hebert, Chief
Mobile Source Operations Division

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

2007 Model Year Certificate of Conformity

Manufacturer: JOHN DEERE POWER SYSTEMS OF DEERE AND COMPANY
Engine Family: 7JDXL06.8101
Certificate Number: JDX-NRCL-07-01
Intended Service Class: NR 5 (75-130) NR6 (130-225)
Fuel Type: DIESEL
FELs: g/kW-hr NMHC+NOx: N/A NOx: N/A PM: N/A
Effective Date: 12/14/2006
Date Issued: DEC 13 2006


Karl J. Simon, Acting Director
Compliance and Innovative Strategies Division
Office of Transportation and Air Quality

Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547) and 40 CFR Part 89, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following nonroad engines, by engine family, more fully described in the documentation required by 40 CFR Part 89 and produced in the stated model year.

This certificate of conformity covers only those new nonroad compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 89 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 89.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 89.129-96 and 89.506-96 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 89. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void ab initio for other reasons specified in 40 CFR Part 89.

This certificate does not cover nonroad engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

Attachment 5

Air Modeling Input/Output Files

Modeling Summary
 Temporary Concrete Batch Plant, Mountain Home, Idaho
 Romero General Construction Corp.

Pollutant	Generator						Concrete Batch Plant			Combined Sources				
	Emissions (g/s)	Model Results (ug/m ³)					Emissions (g/s)	Model Results (ug/m ³)		Model Results (ug/m ³)				
		1 hr	3 hr	8 hr	24 hr	Annual		24 hr	Annual	1 hr	3 hr	8 hr	24 hr	Annual
PM ₁₀	0.007				0.09	0.02	0.21	10.49	0.86				10.59	0.88
SO ₂	0.081		2.96		1.08	0.22	--				2.96		1.08	0.22
NO _x	0.221					0.59	--							0.59
CO	0.039	2.87		1.03			--			2.87		1.03		
As	--						8.66E-06		3.54E-05					3.54E-05
Cr (VI)	--						4.86E-06		1.99E-05					1.99E-05
Ni	--						2.89E-05		1.18E-04					1.18E-04

Note: Modeling results from separate Generator modeling runs and the Concrete Batch Plant modeling runs were mathematically summed together to determine the ambient impact associated with the combined sources.

Generic Modeling Results Using Unit Emission Rate of 1 g/s

Max Modeled Values	Generator	Concrete Batch Plant
1 hr - 2nd high	72.86676	--
3 hr - 2nd high	36.39958	--
8 hr - 2nd high	26.03304	--
24 hr - 1st high	--	53.84349
24 hr - 2nd high	13.28497	49.75554
Annual - 1st high	2.65557	4.08979

Source: AERMOD Output for two modeling scenarios. Maximum value for each averaging period was selected from model runs completed w/ met data spanning years of 1988 through 1992.

Attachment 4

Equipment Specifications